

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (cancelled)

2. (currently amended) A helicopter comprising a self extinguishing composite primary structure comprising:

a core formed from an open cell and a thermal insulating material;

said core comprising a plurality of honeycomb cells filled with a fiberglass material;

said core having a first surface and a second surface;

at least one ply of a structural graphite prepeg material bonded to each of said first surface and said second surface;
and

each said ply is bonded to each of said first and second surfaces by an epoxy structural film adhesive; and

said epoxy structural film adhesive comprising a 350 degree Fahrenheit curing epoxy structural film adhesive.

3. (currently amended) A helicopter comprising a self extinguishing composite primary structure comprising:

a core formed from a cellular material and a thermal insulating material;

said core comprising a plurality of honeycomb cells filled with a fire retardant material;

said core having a first surface and a second surface;

at least one ply of a structural graphite ~~prepreg~~ prepeg material bonded to each of said first surface and said second surface; and

a plurality of plies of structural graphite ~~prepreg~~ prepeg are bonded to each of said first and second surfaces by an epoxy structural film adhesive.

4. (previously presented) A helicopter comprising a self extinguishing composite primary structure according to claim 3, wherein said fire retardant material comprises a fiberglass material.

5. (previously presented) A helicopter comprising a self extinguishing composite primary structure according to claim 2, wherein each said ply is formed from a graphite cloth impregnated with an epoxy resin.

6. (currently amended) A helicopter comprising:

at least one component formed from a self extinguishing composite material, said self extinguishing composite material comprises a core formed from a fire resisting material, which core comprises a plurality of honeycomb cells filled with a fiberglass material and has a first surface and a second surface, and at least one ply of a structural graphite ~~prepreg~~ prepeg material bonded to each of the first surface and the second surface, wherein said at least one ply bonded to said first surface forms an exterior surface of said helicopter and said at least one ply bonded to said second surface forming an interior surface of said helicopter.

7. (original) A helicopter according to claim 6, wherein said at least one component comprises an outer skin panel in a cockpit section of said helicopter.

8. (original) A helicopter according to claim 6, wherein said helicopter has a cabin section and said at least one component comprises an upper cabin door in said cabin section.

9. (original) A helicopter according to claim 6, wherein said helicopter has a cabin section and said at least one component comprises a lower cabin door in said cabin section.

10. (currently amended) A helicopter ~~according to claim 9,~~ ~~wherein said~~ comprising a lower cabin door ~~includes~~ including a plurality of steps and each of said steps being formed from said self extinguishing composite material primary structure of claim 2.

11. (cancelled)

12. (original) A helicopter according to claim 6, wherein said helicopter has a cabin section and said at least one component comprises at least one emergency egress hatch in said cabin section.

13. (original) A helicopter according to claim 6, wherein said helicopter has a transition section and said at least one component comprises an upper door in said transition section.

14. (original) A helicopter according to claim 6, wherein each said ply is bonded to each of said first and second surfaces by an epoxy structural film adhesive.

15. (previously presented) A helicopter according to claim 14, wherein said epoxy structural film adhesive comprises a 350 degree Fahrenheit curing epoxy structural film adhesive.

16. (currently amended) A helicopter according to claim 6, wherein said self extinguishing composite material comprises a plurality of plies of structural graphite ~~prepreg~~ prepeg bonded to each of said first and second surfaces by an epoxy structural film adhesive.

17. (cancelled)

18. (original) A helicopter according to claim 6, wherein each said ply is formed from a graphite cloth impregnated with an epoxy resin.

19. (cancelled)

20. (previously presented) A helicopter comprising a self extinguishing composite primary structure according to claim 3, wherein said adhesive comprises a 350 degree Fahrenheit curing epoxy structural film adhesive.

21. (currently amended) A helicopter comprising:

at least one component for allowing at least one of human access to and egress from at least one of a cabin and a cockpit section of said helicopter; and

said at least one component formed from a self extinguishing composite material comprising a core formed from a fire resisting material, which core has a plurality of honeycomb cells and a fire resisting material in said cells and has a first surface and a second surface, and at least one ply of a structural graphite ~~prepreg~~ prepeg material bonded to the first surface and at least one ply bonded to the second surface.

22. (currently amended) A helicopter according to claim 6, wherein:

said at least one component comprises an outer skin panel in a cockpit section of said helicopter, an upper cabin door in a cabin section of said helicopter, a lower cabin door in said cabin section, ~~at least one floor panel in said cabin section,~~ at least one emergency egress hatch in said cabin section, and an upper door in a transition section; and

said lower cabin door including a plurality of steps and each of said steps being formed from ~~said~~ a self extinguishing composite material structure.

23. (new) A method for forming a component for use on a helicopter, said method comprising the steps of:

laying at least one skin ply into a mold;

placing a first layer of film adhesive over said at least one ply;

positioning a core within said mold;

placing a second layer of film adhesive over said core;

laying at least one additional skin ply over said second layer of film adhesive; and

curing said at least one skin ply, said first layer of film adhesive, said core, said second layer of film adhesive, and said at least one additional ply.

24. (new) The method according to claim 23, wherein said laying at least one skin ply comprises laying at least one skin ply of fiber prepeg.

25. (new) The method according to claim 23, wherein said laying said at least one additional skin ply comprises laying at least one skin ply of carbon fiber prepeg.

26. (new) The method according to claim 23, wherein said curing step comprises curing at a temperature of 350 degrees Fahrenheit in an oven or autoclave.

27. (new) The method according to claim 23, further comprising vacuum bagging said at least one skin ply, said first layer of film adhesive, said core, said second layer of film adhesive, and said at least one additional ply prior to said curing step.

28. (new) A method for forming a helicopter comprising the steps of:

forming each of a portion of a cockpit section of the helicopter, an upper cabin door, a lower cabin door, at least one emergency egress hatch, and an upper door in a transition section from a fire resisting composite primary structure; and

forming each said fire resisting composite primary structure by laying at least one skin ply into a mold; placing a first layer of film adhesive over said at least one ply; positioning a core within said mold; placing a second layer of film adhesive over said core; laying at least one additional skin ply over said second layer of film adhesive; and curing said at least one skin ply, said first layer of film adhesive, said core, said second layer of film adhesive, and said at least one additional ply.

29. (new) A helicopter comprising:

means for increasing crew and passenger safety;

said crew and passenger safety increasing means comprising means for resisting fire forming each of a portion of a cockpit section of the helicopter, an upper cabin door, a lower cabin door, at least one emergency egress hatch, and an upper door in a transition section; and

each said fire resisting means forming said portion of said cockpit section of the helicopter, said upper cabin door, said lower cabin door, said at least one emergency egress hatch, and said upper door in said transition section comprising an outer skin panel having core means for self extinguishing in event of a fire, means for forming an exterior structural surface and an interior structural surface, and means for bonding said structural surfaces forming means to said core means.

30. (new) A helicopter according to claim 29, wherein said bonding means comprises a 350 degree Fahrenheit epoxy structural film adhesive.

31. (new) A helicopter according to claim 29, wherein at least one of said structural surfaces is formed from a 350 degree Fahrenheit cure graphite cloth material impregnated with an epoxy resin material.

32. (new) A helicopter according to claim 29, wherein said core means comprises a honeycomb cell structure formed from a fire retardant material, said honeycomb cell structure having a plurality of cells each filled with Fiberglass.